PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 030125PC	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/SE2004/001019	International filing date (day/month/year) 23 June 2004 (23.06.2004)	Priority date (day/month/year) 27 June 2003 (27.06.2003)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237		
Applicant SANDVIK INTELLECTUAL PROPI	ERTY AB		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the international preliminary	_	the International Searching Authority should be read as a reference er I) instead.		
3.	3. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. Π	Priority			
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention			
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inter	national application		
	Box No. VIII	Certain observations on th	e international application		
4.		<u>-</u>	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority		
			Date of issuance of this report 03 January 2006 (03.01.2006)		
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer Philippe Becamel		
L	mile No. +41 22 740 14 35		Telephone No. +41 22 338 70 90		
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY			ļ	EIVED E P 2004
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Noréns Patentbyrå AB				WIPO	PCT
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		FOR FURTHER A	CTION		
Applicant's or agent's file reference		FOX FOX	See paragraph 2 b	elow	
030125PC	International filing dat	te (day/month/year)	Priority date (day/n	nonth/year)	
International application No. PCT/SE 2004/001019	23.06.2004		27.06.2003	3	
International Patent Classification (IPC)		ication and IPC			
F27D 11/02, H05B 3/6	66	•			
Applicant					
SANDVIK AB et al	,				
1. This opinion contains indications re		tems:			
Box No. I Basis of the o	Box No. I Basis of the opinion				
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement					
Box No. VI Certain docu					
Box No. VII Certain defe	cts in the international a	pplication			
Box No. VIII Certain obse					
Box No. VIII Calami cosa					
2. FURTHER ACTION				itton opinios	n of the
If a demand for international preli	minary examination is I	nade, this opinion will be except that this does no	be considered to be a of apply where the ap	plicant chooses	an
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that written opinions of this Intern	national Searching Author	oilty will hot be to com	FA the applicant is i	nvited to subm	it to the
If this opinion is, as provided about IPEA a written reply together, where the state of the stat	we, considered to be a where appropriate, with an	nendments, before the	expiration of 3 month	s from the date	of
mailing of Form PCT/ISA/220 or	before me expiration of	f 22 months from the pr	ionity date, whichever	er expires facer.	
For further opinions, see Form Po	C171SA/220.				:
3. For further details, see notes to F	orm PCT/ISA/220.				
J. TOI IMMENT COMMENTS					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE 2004/001019

Box No. I Basis of this opinion
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing
b. format of material in written format in computer readable form
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE 2004/001019

Box No. V Reasoned statement was applicability; citations	nder Rule 43 and explan	3bis.1(a)(i) with regard to novelty, inventive step or industrial ations supporting such statement	
1. Statement			
Novelty (N)	Claims	4,7,9-11	YES
1101021 (21)	Claims	1-3,5-6,8	NO
Inventive step (IS)	Claims	4,7	YES
Inventive step (IS)	Claims	1-3,5-6,8-11	NO
T. In the land and in the (TA)	Claims	1-11	YES
Industrial applicability (IA)	Claims		_ NO

2. Citations and explanations:

Document considered to be of particular relevance: D1: US 2888546

The object of the invention is to provide a ceramic heat conductor support disc for supporting a heating element for a heating furnace. In order to minimise the tendency to break due to thermal stresses, elongated openings are arranged in the disc.

D1 (figure 5, column 2, lines 49-55; column 3, lines 16-21; claim 1) discloses a support disc (ceramic block 42), a centre aperture (46), and one or more apertures (44) located between the centre aperture (46) and the periphery of the disc (42). The disc is provided with elongated openings (45) running from the periphery of the disc (42) to said apertures (44) penetrating the whole thickness of said disc (42). Consequently, claim 1 lacks novelty.

Claims 2-3, 5-6 and 8 also lack novelty in regard to D1 (citations as above).

The devices of claims 9-11 are considered to be obvious to person skilled in the art in regard to D1.

The discs defined by claims 4 and 7 are novel in regard to D1. The differences represent different solutions to problems caused by thermal stresses in the disc. The problem of thermal stress is not discussed or solved in D1. It is not considered to be obvious to a person skilled in the art who has knowledge of D1 to modify the construction of the disc in the manner defined by any of claims 4 and 7. Therefore, claims 4 and 7 are considered to involve an inventive step.